The MAC 2000 Profile is a high performance luminaire with two rotating gobo wheels, full CMY color mixing, effect wheel and a combined color and gobo wheel.

- 1200 W short arc discharge lamp
- CMY color mixing system
- Combined 7 position color/gobo wheel plus open
- Variable CTC
- 2 x 5 indexable rotating gobos plus open
- Motorized zoom and focus
- Mechanical dimming
- Optional beam expander
- Variable frost, 3-facet prism
- Motorized iris
- Strobe effect 2 - 10 Hz, pulse effects, instant open and blackout
- Pan and tilt range of 540°/267°
- Variable fan control for quieter operation
- Modular design for easy maintenance and servicing

Physical

Length: 408 mm (16.1 in.)
Width: 490 mm (19.3 in.)
Height: 743 mm (29.3 in.), head straight up
Weight: 45 kg (99.2 lbs.)
Weight: 38 kg (83.8 lbs.), electronic ballast model
Electronic ballast models are currently being discontinued

Lamp

Type: 1200 W short-arc discharge
Fitted as standard: Philips MSR 1200 SA/DE Gold
Color temperature: 6000 K
CRI (Color rendering index): >85
Average lifetime: 750 hours
Socket: Double-ended SFc 10-4 with key
Ballast: Magnetic
Approved alternative lamp(s): Osram HTI 1200 D7/60 SharXS

Dynamic Effects

Color mixing: CMY, independently variable 0 - 100%
Color temperature control: 0 - 178 mireds, continuously variable
Color/gobo wheel: 4 interchangeable filters (incl. UV transmitter), 3 interchangeable glass gobos + open, full and split colors, continuous rotation
Rotating gobos: 2 wheels, each with 5 interchangeable gobos + open, indexing, continuous gobo rotation, shake
Beam effects: Effect wheel with variable frost, rotating beamshaper and rotating 3-facet prism
Mechanical dimmer: 0 - 100%
Shutter: Strobe effect 2 - 10 Hz, pulse effects, instant open and blackout
Iris: 15 - 100% diameter, pulse effects
Focus: 2 m (6.6 ft.) to infinity
Zoom: Motorized
Pan: 540°
Tilt: 267°

Control and Programming

DMX channels: 20/24
Setting and addressing: Control panel with LED display
16-bit control: Rotating gobos, pan & tilt
Movement control options: Tracking and vector
Protocol: USITT DMX512/1990
Receiver: Opto-isolated RS-485
Firmware update: Serial upload via DMX link

Construction

Color(s): Black
Housing: UV-resistant fiber-reinforced composite
Reflector: Glass, cold light
Protection rating: IP20

Gobos

Outside diameter: 37.5 mm (1.5 in.) +0/- 0.3 mm (0.01 in.)
Maximum image diameter: 30 mm (1.2 in.)
Recommended glass: 1.1 mm (0.04 in.), high-temperature Borofloat or better with dichroic or enhanced aluminum coating
Maximum glass thickness: 7 mm (0.3 in.), up to 3 mm (0.1 in.) can be spring-mounted, 3 mm (0.1 in.) - 7 mm (0.3 in.)

must be glued in holder
Recommended metal: 0.5 mm (0.02 in.) aluminum
Static color/gobos: Max. 1.1 mm (0.04 in.), must be glued if below this thickness

Installation

Mounting points: 4 pairs of 1/4-turn locks, 45° orientation possible
Orientation: Any

Connections

AC power input: 3 m (9.8 ft.) integral cable without power plug
DMX data in/out: 3-pin and 5-pin locking XLR

Electrical

AC power: 200-240 V nominal, 50/60 Hz (magnetic ballast)
Main fuse: 15 AT (x 2, for use with 208-240 V power)
Main fuse: 20 AT (x 2, for use with 100-120 V power)

Typical Power and Current

Electronic Ballast
Electronic ballast models are currently being discontinued
100 V, 50 Hz: 1590 W, 19.8 A
100 V, 60 Hz: 1560 W, 19.3 A
120 V, 50 Hz: 1560 W, 16.8 A
120 V, 60 Hz: 1540 W, 16.3 A
208 V, 50 Hz: 1470 W, 10.5 A
208 V, 60 Hz: 1470 W, 10.3 A
230 V, 50 Hz: 1480 W, 9.6 A
230 V, 60 Hz: 1470 W, 9.4 A
250 V, 50 Hz: 1480 W, 8.6 A
250 V, 60 Hz: 1480 W, 8.5 A
Magnetic Ballast
208 V, 50 Hz: 1520 W, 9.3 A
208 V, 60 Hz: 1410 W, 7.5 A
230 V, 50 Hz: 1470 W, 7.6 A
230 V, 60 Hz: 1450 W, 7 A
250 V, 50 Hz: 1480 W, 7.4 A
Measurements made at nominal voltage. Allow for a deviation of +/- 10%.

Thermal

Cooling: Filtered forced air (temperature-regulated)
Maximum ambient temperature (Ta max.): 40° C (104° F)
Maximum surface temperature, steady state, Ta=40° C (104° F): 140° C (284° F)
Total heat dissipation (calculated, +/- 10% at 110 V, 60 Hz / 230 V, 50 Hz): 5290 / 5050 BTU/hr.

Approvals

EU EMC: EN 50 081-1, EN 50 082-1
EU safety: EN 60598-1, EN 60598-2-17
Canadian safety: CSA C22.2 No. 166
US safety: ANSI/UL 1573

Included Items

Philips MSR 1200 SA/DE Gold lamp (installed): P/N 97010310
Two Omega clamp attachment brackets with 1/4-turn fasteners: P/N 91602001
User manual: P/N 35000090

Accessories

Wide-angle lens kit (14° - 35°, mounts on effect wheel): P/N 91610020
T-shaped omega bracket with quarter-turn fasteners: P/N 91602008
G-clamp: P/N 91602003
Half-coupler clamp: P/N 91602005
Quick trigger clamp: P/N 91602007
Super Truss 20.5" mounting plate with half-couplers: P/N 91602014
Swing-wing truss mounting plate with half-couplers: P/N 91602010
Double flightcase (SIP) for MAC 2000 Series: P/N 91510170

Spare Parts

Philips MSR 1200 SA/DE Gold lamp: P/N 97010310
15 AT main fuse: P/N 05020039
20 AT main fuse: P/N 05020040

Ordering Information

MAC 2000 Profile II in cardboard box: P/N 90205615
MAC 2000 Profile II in 2-unit flightcase: P/N 90205600

Photometric Data

Magnetic ballast, Standard , Zoom at Minimum

Efficiency: 16%
Half-peak angle: 9°
Total output: 17800 lm

Magnetic ballast, Standard , Zoom at Median

Efficiency: 15%
Half-peak angle: 12.4°
Total output: 16900 lm

Magnetic ballast, Standard , Zoom at Maximum

Efficiency: 16%
Half-peak angle: 19.8°
Total output: 17100 lm

Electronic ballast, Standard , Zoom at Minimum

Efficiency: 17%
Half-peak angle: 8.9°
Total output: 19000 lm

Electronic ballast, Standard , Zoom at Median

Efficiency: 16%
Half-peak angle: 12.6°
Total output: 17800 lm

Electronic ballast, Standard , Zoom at Maximum

Efficiency: 16%
Half-peak angle: 20°
Total output: 18000 lm

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